

VIA E-FILE

PATENT APPLICATION

Docket No: 15689.61

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of)
	Yukihiko OKUMURA et al.)
Serial No.:	09/701,705) Art Unit
Filing Date:	December 1, 2000) 2637
For:	CHANNEL ESTIMATION DEVICE AND)
	METHOD, DEMODULATION DEVICE AND)
	METHOD, AND FADING FREQUENCY)
	DECISION DEVICE AND METHOD)
Confirmation No.:	7195)
Examiner:	Qutbuddin Ghulamali)
Customer No.:	022913)

AMENDMENT "C"

VIA E-FILE AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

In response to the Office action of February 10, 2006 (paper no. 20060202), please amend the above-identified application as follows:

Remarks/Arguments begin on page 2 of this paper.

REMARKS

These remarks and the accompanying amendments are responsive to the Office Action dated February 10, 2006 (hereinafter referred to as the "Office Action"). At the time of the last examination, Claims 1, 2, 4-8, 18-20, 22, 23, 33-37, 47, 49, 51 and 53-84 were pending for examination, of which Claims 1, 5, 8, 18, 19, 23, 33, 37, 47, 49, 51, 53, 54, 55-62, 69, 70 and 78 are independent. The Office Action allows Claims 5, 19, 54-61 and 70-77 are allowed. The remaining Claims 1, 2, 4, 6-8, 18, 20, 22, 23, 33-37, 47, 49, 51, 53, 62-69 and 78-84 were rejected under 35 U.S.C. 103(a) as being unpatentable over United States patent number 6,647,003 issued to Abeta, et al. (hereinafter referred to as "Abeta") in view of United States patent number 5,881,056 issued to Huang, et al. (hereinafter referred to as "Huang"). Of the rejected claims, Claims 1, 8, 18, 23, 33, 37, 47, 49, 51, 53, 62, 69 and 78 are independent.

The applicants respectfully traverse the 35 U.S.C. 103(a) rejection. Regarding Claims 1, 8, 18, 23, 33, 37, 47, 49 and 51, the Office Action asserts that Abeta discloses said "weighting factors are determined according to the positions of said pilot symbols in the slots of said control channel" (col. 7, lines 63-67; col. 8, lines 1-15). However, actually, Abeta only discloses "the channel estimate acquisition section 120 calculates the weighted sum of the pilot block averages ξ ", namely to calculate the averages by averaging a value at each position, but not to determine said weighting factors according to the positions. Huang also does not teach this feature.

Similarly, regarding independent Claims 53 and 69, Abeta does not disclose "weighted averaging of pilot signals in time" and "selecting one data sequence having highest reliability". Huang also does not teach these features.

Also regarding claim 62 and 78, Abeta does not disclose "using a plurality of weighting sequences" and "selecting one demodulated data by making judgment of reliability". Huang also does not teach these features.

Therefore, all of the rejected independent claims (and thus each of their dependent claims) are patentable over Abeta in view of Huang, even if the reference are combined, the appropriateness of such combination not being conceded. Thus, the 35 U.S.C. 103(a) rejection should be withdrawn.

In the event that the Examiner finds remaining impediment to a prompt allowance of this application that may be clarified through a telephone interview, the Examiner is requested to contact the undersigned attorney.

Dated this 2nd day of May 2006.

Respectfully submitted,

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